Table 1: Radionuclides of Concern

| Radionuclide | Quantity of Concern ¹ (TBq) | Quantity of Concern ² (Ci) |
|---|--|---------------------------------------|
| Am-241 | 0.6 | 16 |
| Am-241/Be | 0.6 | 16 |
| Cf-252 | 0.2 | 5.4 |
| Cm-244 | 0.5 | 14 |
| Co-60 | 0.3 | 8.1 |
| Cs-137 | 1 | 27 |
| Gd-153 | 10 | 270 |
| Ir-192 | 0.8 | 22 |
| Pm-147 | 400 | 11,000 |
| Pu-238 | 0.6 | 16 |
| Pu-239/Be | 0.6 | 16 |
| Ra-226 ⁵ | 0.4 | 11 |
| Se-75 | 2 | 54 |
| Sr-90 (Y-90) | 10 | 270 |
| Tm-170 | 200 | 5,400 |
| Yb-169 | 3 | 81 |
| Combinations of radioactive materials listed above ³ | See Footnote Below ⁴ | |

¹ The aggregate activity of multiple, collocated sources of the same radionuclide should be included when the total activity equals or exceeds the quantity of concern.

² The primary values used for compliance with this Order are TBq. The curie (Ci) values are rounded to two significant figures for informational purposes only.

³ Radioactive materials are to be considered aggregated or collocated if breaching a common physical security barrier (e.g., a locked door at the entrance to a storage room) would allow access to the radioactive material or devices containing the radioactive material.

⁴ If several radionuclides are aggregated, the sum of the ratios of the activity of each source, i of radionuclide, n, $\mathbf{A}_{(i,n)}$, to the quantity of concern for radionuclide n, $\mathbf{Q}_{(n)}$, listed for that radionuclide equals or exceeds one. [(aggregated source activity for radionuclide A) \div (quantity of concern for radionuclide A)] + [(aggregated source activity for radionuclide B) \div (quantity of concern for radionuclide B)] + etc..... \ge 1

⁵ On August 31, 2005, the NRC issued a waiver, in accordance to Section 651(e) of the Energy Policy Act of 2005, for the continued use and/or regulatory authority of Naturally Occurring and Accelerator-Produced Material (NARM), which includes Ra-226. The NRC plans to terminate the waiver in phases, beginning November 30, 2007, and ending on August 7, 2009. The NRC has authority to regulate discrete sources of Ra-226, but has refrained from exercising that authority

until the date of an entity's waiver termination. For entities that possess Ra-226 in quantities of concern, this Order becomes effective upon waiver termination. For information on the schedule for an entity's waiver termination, please refer to the NARM Toolbox website at http://nrc-stp.ornl.gov/narmtoolbox.html.